

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/050983

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01H3/00 D03D15/00  
//A41D1/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A41D D03D H01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                         | Relevant to claim No. |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A          | WO 02/095839 A (KASTNER-JUNG ULRICH ; SIEMENS AG (DE); CLEMENS WOLFGANG (DE); WIENHOLT) 28 November 2002 (2002-11-28)<br>page 3, line 18 - line 23<br>page 4, line 20 - line 31; figure 1b | 1-8, 15, 16           |
| A          | US 3 458 673 A (LUCEY GEORGE K JR ET AL) 29 July 1969 (1969-07-29)<br>the whole document                                                                                                   | 9-14, 17              |
| A          | US 4 606 968 A (BOOZ GEORGE W ET AL) 19 August 1986 (1986-08-19)<br>column 3, line 46 - column 4, line 4;<br>figure 1<br>column 7, line 35 - line 37                                       | 9-14, 17              |

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

**\* Special categories of cited documents:**

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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

1 September 2004

Date of mailing of the international search report

10/09/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                               | Relevant to claim No. |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A          | <p>US 4 676 561 A (BARRETT II JOE H)<br/> 30 June 1987 (1987-06-30)<br/> column 3, line 5 - line 8; figure 2<br/> column 4, line 7 - line 10</p> | 9-14,17               |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050983

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s)                                      | Publication<br>date                                  |
|-------------------------------------------|---|---------------------|-----------------------------------------------------------------|------------------------------------------------------|
| WO 02095839                               | A | 28-11-2002          | DE 10124457 A1<br>WO 02095839 A2                                | 05-12-2002<br>28-11-2002                             |
| US 3458673                                | A | 29-07-1969          | NONE                                                            |                                                      |
| US 4606968                                | A | 19-08-1986          | EP 0149624 A1<br>JP 60028546 A<br>WO 8500556 A1<br>US 4557968 A | 31-07-1985<br>13-02-1985<br>14-02-1985<br>10-12-1985 |
| US 4676561                                | A | 30-06-1987          | NONE                                                            |                                                      |